FIGURE 1A

CHIR 12.12 light chain:

leader:

MALPAQLLGLLMLWVSGSSG

variable:

DIVMTQSPLSLTVTPGEPASISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGS NRASGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTPFTFGPGTKVDIR

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT EQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

FIGURE 1B

CHIR-12.12 heavy chain:

leader:

MEFGLSWVFLVAILRGVQC

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESN RYHADSVKGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGT LVTVSS

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

FIGURE 2A

DNA sequence of light chain of CHIR-12.12:

5'atggegetecetgeteageteetggggetgetaatgetetgggtetetggateeagtggggatattgtgatgaeteagtete eacteteetgaeegteaceetggagageeggeeteeateteetgeaggteeagteagageeteetgtatagtaatggata eaaetatttggattggtaeetgeagaggeaggeaggeagteteeacaggteetgatetetttgggttetaategggeeteeggg teeetgaeaggteagtggateaggeaeagattttaeaetgaaaateageagagtggaggetgaggatgttgggg tttattaetgeatgeaagetegaeaaaeteeatteaettteggeeetgggaeeaaagtggatateagaeggatgttgggg tttattaetgeatgeaagetegaeaaaeteeatteaettteggeeetgggaeeaaagtggatateagaegaaetgtggetgea ecatetgtetteatetteeegeeatetgatgaeagttgaaatetggaaetgeetetgttgtgtgeetgetgaataaettetatee eagagaggeeaaagtaeagtggaaggtggataaegeeeteeaaagggaaaeteegggaagaggaaeaeaaagtetaegeetgeagaageagaaeaeaaagtetaegeetgegaagteaceaaagggaagtgttaaaaggeagaagtetaegeetgegaagteacaaagggaagagtgttaag3'

FIGURE 2B

DNA sequence of heavy chain of CHIR-12.12 (including introns):

5'atggagtttgggctgagctgggttttccttgttgctattttaagaggtgtccagtgtcaggtgcagttggtggagtctggggg aggegtggtccagectgggaggtccctgagactctcctgtgcagcctctggattcaccttcagtagctatggcatgcactgg gtccgccaggctccaggcaaggggctggagtgggtggcagttatatcatatgaggaaagtaatagataccatgcagactc cgtgaagggccgattcaccatctccagagacaattccaagatcacgctgtatctgcaaatgaacagcctcagaactgagga cacggctgtgtattactgtgcgagagatgggggtatagcagcacctgggcctgactactggggccagggaaccctggtca ccgtctcctcagcaagtaccaagggcccatccgtcttccccctggcgcccgctagcaagagcacctctgggggcacagcggccctgggctgcctggtcaaggactacttccccgaaccggtgacggtgtcgtggaactcaggcgccctgaccagcggc gtgcacaccttcccggctgtcctacagtcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttgg gcacccagacctacatctgcaacgtgaatcacaagcccagcaacaccaaggtggacaagaggttggtgagaggccag ctggctttttccccaggctctgggcaggcacaggctaggtgccctaacccaggccctgcacacaaaggggcaggtgctg ggctcagacctgccaagagccatatccgggaggaccctgccctgacctaagcccaccccaaaggccaaactctccact ccctcagctcggacaccttctctcccagattccagtaactcccaatcttctctctgcagagcccaaatcttgtgacaaaac tcacacatgcccaccgtgcccaggtaagccaggcccaggcctcgccctccagctcaaggcgggacaggtgccctagagta gcctgcatccagggacaggcccagccgggtgctgacacgtccacctccatctcttcctcagcacctgaactcctggggg gaccgtcagtcttcctcttcccccaaaacccaaggacaccctcatgatctcccggacccctgaggtcacatgcgtggt ggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggaggtgcataatgccaagacaaag ccgcgggaggagcagtacaacagcacgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaatggca aggagtacaagtgcaaggtctccaacaaagccctcccagccccatcgagaaaaccatctccaaagccaaaggtgggac ccgtggggtgcgagggccacatggacagaggccggctcggcccaccctctgccctgagagtgaccgctgtaccaacct ctgtccctacagggcagccccgagaaccacaggtgtacaccctgccccatcccgggaggaggagatgaccaagaaccagg tcagcctgacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatgggcagccggagaa caactacaagaccacgcctcccgtgctggactccgacggctccttcttcctctatagcaagctcaccgtggacaagagcag gtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctctgcacaaccactacacgcagaagagcctctccct gtctccgggtaaatga3'

FIGURE 3A

CHIR-5.9 light chain:

leader:

MALLAQLLGLLMLWVPGSSG

variable:

AIVMTQPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRPGQPPRLLIYKFF RRLSGVPDRFSGSGAGTDFTLKISRVEAEDVGVYYCMQVTQFPHTFGQGTRLEIK

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT EQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

FIGURE 3B

CHIR-5.9 heavy chain:

leader:

MGSTAILALLLAVLQGVCA

variable:

EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGTAAGRDYYYYYGMDV WGQGTTVTVSS

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

FIGURE 4A

Coding sequence for short isoform of human CD40:

- 1 atggttegte tgeetetgea gtgegteete tgggggetget tgetgaeege tgteeateea
- 61 gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttctttg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 cettgeggtg aaagegaatt cetagacaee tggaacagag agacaeactg ceaceageae
- 241 aaatactgcg accccaacct agggcttcgg gtccagcaga agggcacctc agaaacagac
- 301 accatctgca cctgtgaaga aggctggcac tgtacgagtg aggcctgtga gagctgtgtc
- 361 ctgcaccgct catgctcgcc cggctttggg gtcaagcaga ttgctacagg ggtttctgat
- 421 accatctgcg agccctgccc agtcggcttc ttctccaatg tgtcatctgc tttcgaaaaa
- 481 tgtcaccctt ggacaaggtc cccaggatcg gctgagagcc ctggtggtga tccccatcat
- 541 cttcgggatc ctgtttgcca tcctcttggt gctggtcttt atcaaaaagg tggccaagaa
- 601 gccaaccaat aa

FIGURE 4B

Encoded short isoform of human CD40:

- 1 mvrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetecl
- 61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtrspgs aespggdphh
- 181 lrdpvchplg aglyqkggqe anq

FIGURE 4C

Coding sequence for long isoform of human CD40:

- 1 atggttcgtc tgcctctgca gtgcgtcctc tggggctgct tgctgaccgc tgtccatcca
- 61 gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttctttg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 cettgeggtg aaagegaatt cetagacace tggaacagag agacacactg ceaccageac
- 241 aaatactgcg accccaacct agggcttcgg gtccagcaga agggcacctc agaaacagac
- 301 accatetgea cetgtgaaga aggetggeae tgtacgagtg aggeetgtga gagetgtgte
- 261 described and and and agentification of the graph of the standard agents and agents agent agents agents agents agents agents agents agents agents agents agent agents agent agents agent agents agents agents agents agents agents agents agents agent agents agent agents agen
- 361 ctgcaccgct catgctcgcc cggctttggg gtcaagcaga ttgctacagg ggtttctgat 421 accatctgcg agccctgccc agtcggcttc ttctccaatg tgtcatctgc tttcgaaaaa
- 481 tgtcaccett ggacaagetg tgagaccaaa gacetggttg tgcaacagge aggcacaaac
- 541 aagactgatg ttgtctgtgg tccccaggat cggctgagag ccctggtggt gatccccatc
- 601 atcttcggga tcctgtttgc catcctcttg gtgctggtct ttatcaaaaa ggtggccaag
- 661 aagccaacca ataaggcccc ccaccccaag caggaacccc aggagatcaa ttttcccgac
- 721 gatcttcctg gctccaacac tgctgctcca gtgcaggaga ctttacatgg atgccaaccg
- 781 gtcacccagg aggatggcaa agagagtcgc atctcagtgc aggagagaca gtga

FIGURE 4D

Encoded long isoform of human CD40:

- 1 mvrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetecl
- 61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtscetk dlvvqqagtn
- 181 ktdvvcgpqd rlralvvipi ifgilfaill vlvfikkvak kptnkaphpk qepqeinfpd
- 241 dlpgsntaap vqetlhgcqp vtqedgkesr isvqerq

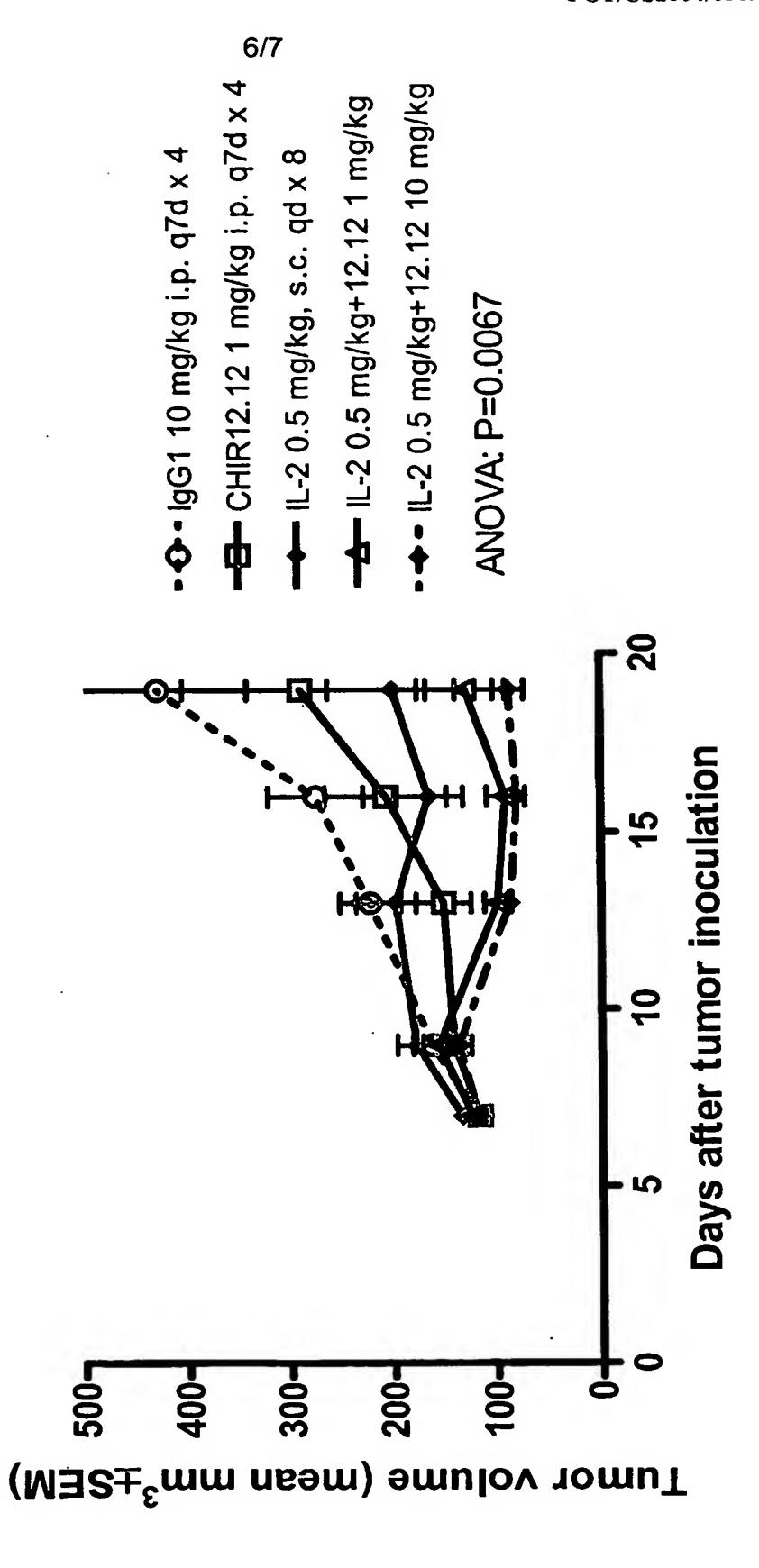


FIGURE 6

